

JOINT WARFARE SYSTEM (JWARS) WARGAMING REQUIREMENTS

Joint Staff/J-8

JOINT MODELING & SIMULATION REQUIREMENTS GROUP (JM&SRG)



Charter

- Define theater-level modeling and analysis requirements
- Manage future requirements for JWARS
- Recommend requirements to steering committee

Membership

- CINCs (all)
- Joint Staff (all directorates)
- Services (all)
- OSD (PA&E, S&R, CISA, BMDO)
- Others (e.g., DIA)

ADDITIONAL INVITED ATTENDEES



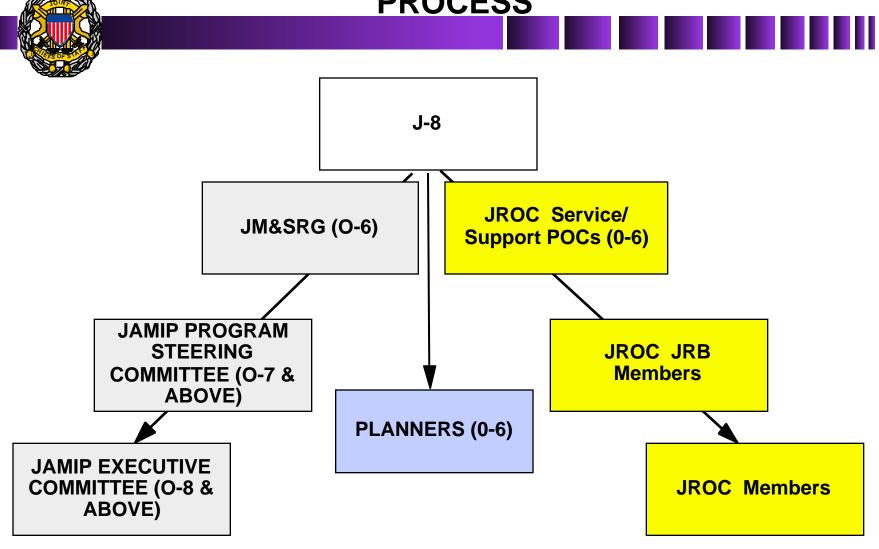
- DMSO
- DMSO M&S Executive Agents for Terrain, Ocean,
 Air & Space
- Joint Warfare Analysis Center
- Naval Postgraduate School
- Office of the Space Architect
- OUSD (Advanced Technology)
- OUSD (Counterproliferation)

OVERSIGHT?

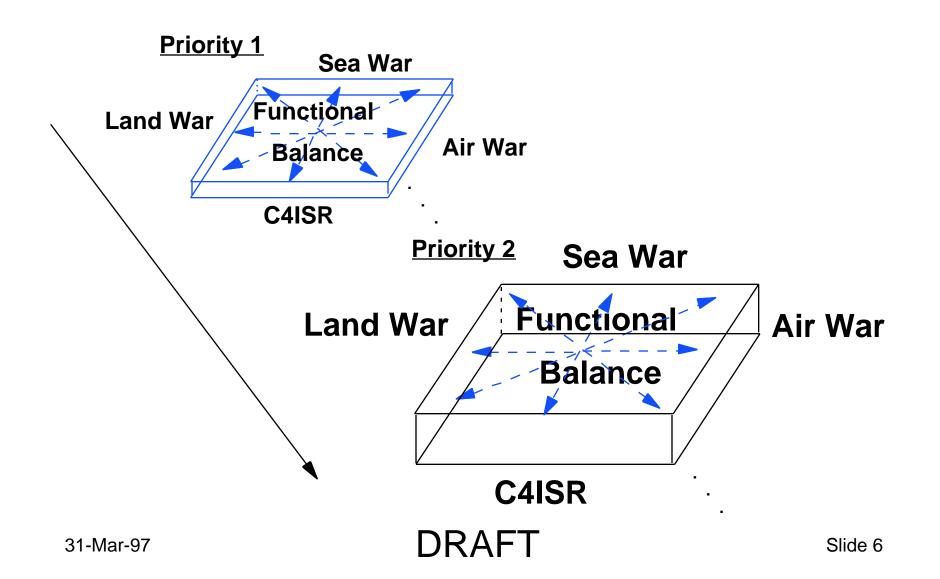


No attendees invited from wargaming community

APPROVAL, DEVELOPMENT, AND COORDINATION PROCESS



CONCEPT FOR SUCCESSIVE VERSIONS OF REQUIREMENTS



PRINCIPLES



- Critical functions must be represented and the various joint warfare functions are to be balanced
- C4ISR linkage to warfight is overarching
- Theater level is focus of analysis
- Requirements are intended to satisfy all users and uses, by phase of development

APPROACH



- Describe functionality
 - Fishbone charts
 - Functions matrix
- Identify objects
 - Object resolution (prioritized)
 - Object characteristics
- Identify interactions between objects

– C4ISR Same-side matrix

LogisticsSame-side matrix

Combat/IW/EWOpposing-side matrix

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JOINT THEATER OPERATIONS FUNCTIONS

1st

2nd



	<u> </u>	Priority	<u>S</u> <u>Priority</u>
Air Defense	E		
Air Escort	E		
Air Superiority	E		
Airborne/Helo Operations	E		
Amphibious Operations	E	EE	cplicit
AOA Defense	E		•
CAS	E	1111)	plicit
Chokepoint Defense	E		
Chokepoint Interdiction	E		
Coastal Defense	E		
Combat Engineer Operations	E		
Fire Support (Suppress, Destroy, Neutralize, & Obscure)	E		
Ground Defense	E		

3rd

JOINT THEATER OPERATIONS FUNCTIONS

(Cont.)

	1 st	2 nd	3 rd
	<u>Priority</u>	Priority	<u>Priority</u>
Interdiction	E	EE	xplicit
Maneuver (Attack, Defend, & Move) Missile Defense (Ballistic/Cruise)	E E	IIr	nplicit
MIW/MCM	E		<u>.</u>
Search and Rescue Sea Control	E		I
SEAD SLOC Defence	E F		
SLOC Defense Space (Control, Force Application, Force Enhancement, Support, & Attack)	E	I	E
Strategic Attack	E		

JOINT THEATER OPERATIONS **OBJECTS**



1st **Priority** **Priority**

Priority

Air Combat Unit

Air Msn Element/ **Msl Attack**

MsI

Air Defense Unit

Air Defense Bn

Air Def

Aircraft/

Air Def

Site/Btry

Wpn/ Sensors

Air Support Unit

Spt Air Msn

Aircraft

Element

Airbase/Port

Facilities Detailed

facs

Airbase/Port Support Unit

Airbase/Port

Attack Helicopter Unit

Airbase/Port Spt

Unit

Attack Helo Bn

Attack

Helo

JOINT THEATER OPERATIONS **OBJECTS (Cont.)**



Priority

C² Units DIV/ACE/Wing/CAG HQ, Corps/TG/MEF HQ, **Army/TF/MAGTF HQ**, **Component CMD HQ, JTF HQ/JSOTF HQ, CINC** HQ/NCA

Priority

Add: Bde/Rgt Add: Bn HQ, HQ, TU, Air Sqdn

Priority

TE, MSN or A/C CDR

JOINT THEATER OPERATIONS OBJECTS (Cont.)



1st Priority 2nd Priority 3rd Priority

Civilian Center/Facility	Aggregate Center/ Facs		Detailed center/facs
Combat Support Unit	EAD Cmbt Spt Bde	Bn	Со
Ground Combat Unit	Bde/RLT/Rgt/MEU	Bn	Со
Sea Combat Unit	Ship/Sub	Landing craft/ Boats	
Service Support Unit	EAD Svc Spt Bde/Grp	Bn	Со
Support Ship	Spt Ship		

^{*} Individual marine/soldier added as a 4th priority

PROCESS REQUIREMENTS POTENTIALLY USEFUL TO WARGAMING COMMUNITY

- Run control: JWARS will include the following capabilities:
 - With minimal burden, interrupt JWARS, redefine data, and restart execution at the point where execution left off
 - Provide a rolling checkpoint that allows periodic capture of "state of the model" at user-defined intervals or object state values and subsequent restart at any of these points

PROCESS REQUIREMENTS POTENTIALLY USEFUL TO WARGAMING COMMUNITY (Cont.)

- Display/User interface
 - Menu-driven user interface
 - Map-based GUI
- Portability: Use of lap-top and notebook computers for low-resolution analysis as a goal
- Preprocessing: User standard terminology
- Postprocessing: Graphical, text, and spreadsheet displays expotable to standard software packages

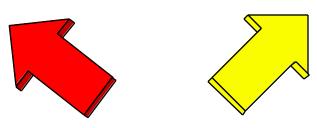


BACKUP





JS: FORCE SUFFICIENCY



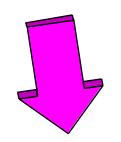
JWCAs:

- ISSUE DEV.
- JOINT CAPABILITY TRADEOFFS





CINCS: OPLAN AOAs



SVCs:

- SYSTEM-LEVEL TRADEOFFS
- COEAS

JWARS REQUIREMENTS APPROVAL CHRONOLOGY

ACTIVITY	DATE
JM&SRG-derived initial requirements	Aug 95
Member level (0-6) approval of draft	Sep 95
JAMIP Steering Cmte approval of draft	Dec 95
Briefing on process and content to JROC	Jan 96
JAMIP Executive Cmte approval of draft	Feb 96
Planners' level coordination	Apr 96
JROC tasking to assess req'ts process	May 96
VCJCS approval of requirements process	Sep 96
Development of draft ORD for MOP-77 staffing	Dec 96
Coordination of comments	Mar 97

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31-Mar-97

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DEVELOPMENT PROCESS



• Known Theater Model Requirements

